

**Dr. Mitchell Thomas Zischke**

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**CURRENT POSITIONS**2017-current: **Clinical Assistant Professor in Fisheries and Aquatic Sciences**

Purdue University

Department of Forestry and Natural Resources

Teaching activities include instructing marine biology, fish ecology and fisheries management courses, as well as numerous guest lectures. Advisory activities include supervising undergraduate and graduate students, as well as advising the Purdue chapter of the American Fisheries Society and the Purdue Bass Fishing club. Extension is collaborative with the Illinois-Indiana Sea Grant and include programs on recreational fisheries in Lake Michigan and pond management throughout the Midwest.

**EDUCATION**2008- 2013: **Doctor of Philosophy (PhD) in Fisheries Science**

The University of Queensland, Brisbane QLD Australia

CSIRO Marine & Atmospheric Research, Brisbane, Australia

Degree awarded on July 4, 2013

2006: **Bachelor of Science (BSc) with Honors (Hons.)**

Honors Class 1 in the field of Parasitology

Grade Point Average: 7.0/7

The University of Queensland, Brisbane QLD Australia

2002-2005: **Bachelor of Science (BSc)**

Major in Tropical Marine Science

3<sup>rd</sup> Year Grade Point Average: 5.6/7

The University of Queensland, Brisbane QLD Australia

1997-2001: **High School Senior Certificate**

Overall Position (OP): 4

Ipswich Grammar School, Ipswich QLD Australia

**PUBLICATIONS**

*I have published 14 peer-reviewed journal articles, 2 theses, 5 final reports and 9 extension products. My work has been cited 198 times and my h-index is 10.*

1. Griffiths, S.P., **Zischke, M.T.**, van der Velde, T., Fry, G.C. 2019. Reproductive biology and estimates of length and age at maturity of longtail tuna (*Thunnus tonggol*) in Australian waters based on histological assessment. *Marine and Freshwater Research*, 70, 1419-1426.
2. Perelman, J.N., Schmidt, K.N., Haro, I., Tibbetts, I.R., **Zischke, M.** 2017. Feeding dynamics, consumption rates and daily ration of wahoo *Acanthocybium solandri* in Indo-Pacific waters. *Journal of Fish Biology*, 90, 1842-1860.

3. **Zischke, M.T.**, Bunnell, D.B., Troy, C.D., Berglund, E.K., Caroffino, D.C., Ebener, M.P., He, J.X., Sitar, S.P., Höök, T.O. 2017. Asynchrony in the inter-annual recruitment of lake whitefish *Coregonus clupeaformis* in the Great Lakes region. *Journal of Great Lakes Research*, 43, 359-369.
4. Teixeira, D., **Zischke, M.**, Webley, J. 2016. Investigating bias in recreational fishing surveys: Fishers listed in public telephone directories fish similarly to their unlisted counterparts. *Fisheries Research* 181, 127-136.
5. **Zischke, M.T.**, Litherland, L., Tilyard, B.R., Stratford, N.J., Jones, E.L., Wang, Y-G. 2016. Otolith morphology of four mackerel species (*Scomberomorus* spp.) in Australia: species differentiation and prediction for fisheries monitoring and assessment. *Fisheries Research* 176, 39-47.
6. **Zischke, M.T.**, Griffiths, S.P. 2015. Per-recruit stock assessment of wahoo (*Acanthocybium solandri*) in the southwest Pacific Ocean. *Fishery Bulletin* 113, 407-418.
7. **Zischke, M.T.**, Griffiths, S.P. 2014. Time-location sampling with capture-recapture to assess specialised recreational fisheries. *Fisheries Research* 157, 136-146.
8. **Zischke, M.T.**, Farley, J.H., Griffiths, S.P., Tibbetts, I.R. 2013. Reproductive biology of wahoo, *Acanthocybium solandri*, off eastern Australia. *Reviews in Fish biology and Fisheries* 23, 491-506.
9. **Zischke, M.T.**, Griffiths, S.P., Tibbetts, I.R. 2013. Rapid of wahoo (*Acanthocybium solandri*) in the Coral Sea, based on length-at-age estimates using annual and daily increments on sagittal otoliths. *ICES Journal of Marine Science* 70, 1128-1139.
10. Griffiths, S.P., **Zischke, M.T.**, Tonks, M.L., Pepperell, J.G., Tickell, S. 2013. Efficacy of novel sampling approaches for surveying specialised recreational fisheries. *Reviews in Fish Biology and Fisheries* 23, 395-413.
11. **Zischke, M.T.**, Griffiths, S.P., Tibbetts, I.R., Lester, R.J.G. 2013. Stock identification of wahoo (*Acanthocybium solandri*) in the Pacific and Indian Oceans using morphometrics and parasites. *ICES Journal of Marine Science* 70, 164-172.
12. **Zischke, M.T.**, Griffiths, S.P., Tibbetts, I.R. 2012. Catch and effort from a specialized recreational pelagic sport fishery off eastern Australia. *Fisheries Research* 127-128, 61-72.
13. **Zischke, M.T.** 2012. A review of the biology, stock structure, fisheries and status of wahoo (*Acanthocybium solandri*), with reference to the Pacific Ocean. *Fisheries Research* 119-120, 13-22.
14. **Zischke, M.T.**, Cribb, T.H., Welch, D.J., Sawynok, W., Lester, R.J.G. 2009. Stock structure of blue threadfin *Eleutheronema tetradactylum* on the Queensland east-coast, as determined by parasites and conventional tagging. *Journal of Fish Biology* 75, 156-171.

#### Theses

1. **Zischke, M.T.** 2013. Biology, fisheries and assessment of wahoo, *Acanthocybium solandri*, off eastern Australia. PhD Thesis. The University of Queensland, Brisbane, 344 pp.

2. **Zischke, M.T.** 2006. The use of parasites as biological tags to determine the small scale spatial movement of blue threadfin (*Eleutheronema tetradactylum*) off the east coast of Queensland. Honours Thesis. The University of Queensland, Brisbane, 57pp.

### Reports

1. **Zischke, M.**, Gramig, B. 2017. Recreational valuation and management implications for the southern Lake Michigan fishery. Final report to the Illinois-Indiana Sea Grant College Program. 40 pp.
2. **Zischke, M.**, Salazar, K, Dorworth, L, Beugly, J. 2017. Public workshop on recreational fishing in southern Lake Michigan. Final report to the Indiana Lake Michigan Coastal Program. 4 pp.
3. Griffiths, S.P., **Zischke, M.T.**, Tonks, M.L., Pepperell, J.G. and Tickell, S. 2012. Innovative and cost-effective approaches for surveying specialised recreational longtail tuna fishers in Australian waters. Report to the second session of the Indian Ocean Tuna Commission working party on neritic tunas, Penang, Malaysia. 36 pp.
4. **Zischke, M.T.**, Griffiths, S.P., Tibbetts, I.R. and Lester, R.J.G. 2010. Stock structure of wahoo, *Acanthocybium solandri*, off eastern Australia, as inferred from parasites and morphometrics. RZS NSW Final Report. 10 pp.
5. Griffiths, S., Pepperell, J., Tonks, M., Sawynok, W., Olyott, L., Tickell, S., **Zischke, M.**, Lynne, J., Burgess, J., Jones, E., Joyner, D., Makepeace, C. and Moyle, K. 2010. Biology, fisheries and status of longtail tuna (*Thunnus tonggol*), with special reference to recreational fisheries in Australian waters. FRDC Final Report 2008/058. 101 pp.

### Extension products

1. **Zischke, M.**, Brooke, J., Whitford, F. 2019. Pond and Wildlife Management: Resources for private landowners in Indiana. Available at <https://www.extension.purdue.edu/pondwildlife/>
2. **Zischke, M.**, Tomlinson, T., Whitford, F., Osborne, D., Brooke, J. 2019. Indiana Pond Fish Species Identification. Purdue University extension publication (FNR-584, PPP-128). 16pp.
3. Whitford, F., Stoupe, J., **Zischke, M.**, Hellenthal, R., Hellenthal, H., Willey, L., Becovitz, J. 2019. Category 5 aquatic pest management e-learning training. Purdue University. More information available at <https://ppp.purdue.edu/resources/e-learning/>
4. **Zischke, M.**, Doucette, J., Utley, L., Wesander, D., Eggold, B., Robillard, S., Höök, T. 2019. FishAtlas: Spatial visualization of charter fishing catch in Lake Michigan. Available at [www.fishatlas.org](http://www.fishatlas.org)
5. Tomlinson, T., **Zischke, M.**, Brooke, J., Whitford, F., Osborne, D., Ferris, J. 2019. Stocking fish in Indiana ponds. Purdue University extension publication (FNR-569, PPP-125). 8pp.
6. Leonhardt, B., Bootsma, H., Bronte, C., Czesny, S., Happel, A., Komis, M., Rinchard, J., Turshak, B., **Zischke, M.**, Höök, T. 2018. What's on the menu for salmon and trout in Lake Michigan? Purdue University (FNR-565) and Illinois-Indiana Sea Grant (IISG18-LWD-RLA-009) extension publication. 8pp.
7. **Zischke, M.**, Gramig, B., Dickinson, B., Roswell, C. 2017. AnglerArchive: An online data portal for historical recreational fishing data in southern Lake Michigan. Available at [www.anglerarchive.org](http://www.anglerarchive.org)

8. **Zischke, M.T.** 2009. Wahoo wonders: their biology and ecology in Australian waters. Spearfishing Downunder Magazine 24, 82-84.
9. **Zischke, M.T.** 2009. Wahoo worms – letter to the editor. Fishing World December Issue, 28-29.

## PRESENTATIONS AND MEDIA

*I have given 87 presentations, including 2 conference symposia, 40 conference presentations, 13 invited scientific presentations, 11 extension events and 21 extension presentations to stakeholders and the general public. My work has been featured in 9 media productions.*

*\* indicates a presentation by a student mentee*

### Conference Symposia

1. **Zischke, M.**, Brooke, J. & Seilheimer, T. 2018 (January). Extension and Outreach for Anglers and Hunters: Challenges, Innovation and Collaboration. Symposium at the 78<sup>th</sup> Midwest Fish and Wildlife Conference, Milwaukee WI, USA.
2. **Zischke, M.T.** & Roswell, C.R. 2016 (January). Recreational fisheries in the Midwest: Challenges and opportunities. Symposium at the 76<sup>th</sup> Midwest Fish and Wildlife Conference, Grand Rapids MI, USA.

### Conference Presentations

1. **Zischke, M.**, Beugly, J., Dorworth, L., Foley, C. 2019 (January). Fisheries extension in southern Lake Michigan. Presentation at the 79<sup>th</sup> Midwest Fish and Wildlife Conference, Cleveland, OH, USA.
2. **Zischke, M.**, Beugly, J., Charlebois, P. 2018 (June). Engaging anglers, managers and scientists in the southern Lake Michigan fishery. Presentation at the 61<sup>st</sup> International Association for Great Lakes Research Conference, Toronto, ON, Canada.
3. **Zischke, M.**, Dickinson, B., Eggold, B., Robillard, S., Roswell, C., Wesander, D., Höök, T. 2018 (January). Fisheries extension in southern Lake Michigan. Presentation at the 78<sup>th</sup> Midwest Fish and Wildlife Conference, Milwaukee WI, USA.
4. Brooke, J., **Zischke, M.** 2018 (January). Needs assessment of Extension Educators related to pond and land management in Indiana. Presentation at the 78<sup>th</sup> Midwest Fish and Wildlife Conference, Milwaukee WI, USA.
5. **Zischke, M.**, Dickinson, B., Eggold, B., Robillard, S., Roswell, C., Wesander, D., Höök, T. 2017 (November). FishAtlas and AnglerArchive: Interactive Websites for Recreational Fisheries in Lake Michigan. Poster presentation at the State of Lake Michigan Conference, Green Bay WI, USA.
6. Gramig, B.M., He, X., **Zischke, M.**, Dickinson, B. & Roswell, C. 2017 (February). Least-cost Travel Cost Estimation Using a Multi-site User Intercept Survey of Southern Lake Michigan Anglers. Presentation at the USDA W-3133 multi-state project annual meeting, Carlsbad, CA.
7. He, X., B.M. Gramig, **M. Zischke**, B. Dickinson, & C. Roswell. 2017 (February). Least-cost Travel Cost Estimation Using a Multi-site User Intercept Survey of Southern Lake Michigan Anglers. Selected poster, Agricultural and Applied Economics Association Annual Meeting, Chicago, IL.

8. **Zischke, M.**, Roswell, C., Dickinson, B. & Gramig, B. 2017 (February). RecFish LM: An online data portal for recreational fisheries in southern Lake Michigan. Interactive poster presentation at joint conference for the Indiana and Ohio chapters of the American Fisheries Society, Muncie, IN, USA.
9. **Zischke, M.**, Roswell, C., Dickinson, B. & Gramig, B. 2017 (February). Linking creel survey data with biotic and abiotic data to identify drivers of fishery change in southern Lake Michigan. Oral presentation at the 77<sup>th</sup> Midwest Fish and Wildlife Conference: Private Landscapes, Public Responsibilities, Lincoln, NE, USA.
10. **Zischke, M.**, Henebry, L., Ramirez, A., Andree, S. & Höök, T. 2017 (February). Diel horizontal migration of small-bodied fishes in Lake Michigan. Oral presentation at the 77<sup>th</sup> Midwest Fish and Wildlife Conference: Private Landscapes, Public Responsibilities, Lincoln, NE, USA.
11. Gramig, B., He, X., **Zischke, M.**, Dickinson, B. & Roswell, C. 2016 (November). Least-cost Travel Cost Estimation Using a Multi-site User Intercept Survey of Southern Lake Michigan Anglers. Poster presentation at the Heartland Environmental and Resource Economics workshop, University of Illinois, Urbana-Champaign, IL, USA.
12. Hutton, M.\*, Collingsworth, P., Guffey, S., Rutherford, E., **Zischke, M.** & Höök, T. 2016 (June). Assessing a secondary consumer through space and time: The story of Lake Michigan *Bythotrephes*. Oral presentation at the 59<sup>th</sup> International Association for Great Lakes Research Conference: Great Lakes Solutions: Integrating across disciplines and scales, Guelph, ON, Canada.
13. Kalejs, N.\*, Höök, T., Zischke, M., Beugly, J., Collingsworth, P., Roseman, E., Hunter, R., Fielder, D. 2016 (June). Assessment of reef restoration potential in Saginaw Bay, Lake Huron. Oral presentation at the 59<sup>th</sup> International Association for Great Lakes Research Conference: Great Lakes Solutions: Integrating across disciplines and scales, Guelph, ON, Canada.
14. Haro-Bilbao, I.\*, **Zischke, M.T.**, Salinas-de Leon, P. & Tibbetts, I.R. 2016 (May). Reproductive biology of wahoo (*Acanthocybium solandri*) in the Galapagos Marine Reserve. Oral presentation at the 67<sup>th</sup> Tuna Conference: Tuna trials and tribulations, is all hope lost? Lake Arrowhead CA, USA.
15. Ramirez, A.\*, **Zischke, M.**, Höök, T. 2016 (April). Diel horizontal migration of small-bodied fishes in Lake Michigan. Poster presentation at the Purdue Discovery Undergraduate Research Internship Poster Symposium, West Lafayette, IN, USA.
16. Kalejs, N.\*, Höök, T., **Zischke, M.**, Beugly, J., Collingsworth, P., Roseman, E., Hunter, R. & Fielder, D. 2016 (April). A pre-restoration assessment of reef spawning habitat in Saginaw Bay. Poster presentation at the Purdue Forestry and Natural Resources student poster symposium, West Lafayette, IN, USA.
17. Turney, D.\*, **Zischke, M.**, Zollner, P., Gramig, B., Roswell, C. & Dickinson, B. 2016 (April). Using capture-recapture models to estimate angler abundance in southern Lake Michigan. Poster presentation at the Purdue Forestry and Natural Resources student poster symposium, West Lafayette, IN, USA.
18. **Zischke, M.**, Gramig, B., Zollner, P., Roswell, C., Dickinson, B. & Turney, D. 2016 (April). Research and extension on angling in southern Lake Michigan. Poster presentation at the 2016 Purdue Life Sciences Postdoctoral Symposium, West Lafayette, IN, USA.
19. **Zischke, M.**, Gramig, B., Zollner, P., Roswell, C., Dickinson, B. & Turney, D. 2016 (March). Research and extension on angling in southern Lake Michigan. Poster presentation at the Purdue International Scholar Research Symposium, West Lafayette, IN, USA.

20. Turney, D.\*, **Zischke, M.**, Zollner, P., Gramig, B., Roswell, C. & Dickinson, B. 2016 (March). Using capture-recapture models to estimate angler abundance in southern Lake Michigan. Oral presentation at the Indiana Academy of Science Conference, Indianapolis, IN, USA.
21. **Zischke, M.**, Gramig, B., Zollner, P., Roswell, C., Dickinson, B. & Turney, D. 2016 (March). Research and extension on angling in southern Lake Michigan. Poster presentation at the Joint Conference of the Indiana Chapters of the American Fisheries Society, Society of American Foresters, and The Wildlife Society, Bloomington, IN, USA.
22. Kalejs, N.\*, Höök, T., **Zischke, M.**, Beugly, J., Collingsworth, P. Roseman, E., Hunter, R. & Fielder, D. 2016 (March). A pre-restoration assessment of reef spawning habitat in Saginaw Bay. Poster presentation at the Joint Conference of the Indiana Chapters of the American Fisheries Society, Society of American Foresters, and The Wildlife Society, Bloomington, IN, USA.
23. **Zischke, M.**, Roswell, C., Dickinson, B. & Gramig, B. 2016 (January). Using historical creel survey data for southern Lake Michigan to identify drivers of fishery change. Oral presentation at the 76<sup>th</sup> Midwest Fish and Wildlife Conference, Grand Rapids MI, USA.
24. Kalejs, N.\*, Höök, T., **Zischke, M.**, Beugly, J., Roseman, E., Hunter, R. & Fielder, D. 2016 (January). A pre-restoration spawning assessment of Saginaw Bay reef habitat. Oral presentation at the 76<sup>th</sup> Midwest Fish and Wildlife Conference, Grand Rapids MI, USA.
25. Hutton, M.\*, Collingsworth, P., Guffey, S., Rutherford, E., **Zischke, M.** & Höök, T. 2016 (January). Spatiotemporal differences in the condition of *Bythotrephes longimanus* in Lake Michigan. Oral presentation at the 76<sup>th</sup> Midwest Fish and Wildlife Conference, Grand Rapids MI, USA.
26. **Zischke, M.T.**, Bunnell, D.B., Troy, C. & Höök, T.O. 2015 (May). Recruitment synchrony of lake whitefish (*Coregonus clupeaformis*) in the Great Lakes Region. Oral presentation at the 58<sup>th</sup> International Association for Great Lakes Research Conference: New views, new tools, Burlington VT, USA.
27. Bunnell, D.B., Höök, T.O., Troy, C., Liu, W., Madenjian, C.P., **Zischke, M.T.**, Honsey, A., & Adams, J. 2015 (May). Synchronicity in recruitment among Lake Michigan fish populations. Oral presentation at the 58<sup>th</sup> International Association for Great Lakes Research Conference: New views, new tools, Burlington VT, USA.
28. **Zischke, M.T.**, Litherland, L., Tilyard, B., Stratford, N., Jones, E.L. & Wang, Y-G. Otolith morphology to differentiate and predict among four mackerel species in Australia. Oral presentation at the 66<sup>th</sup> Tuna Conference: Putting the pieces together, Lake Arrowhead CA, USA.
29. Haro-Bilbao, I.\*, Salinas-de Leon, P., **Zischke, M.T.** & Tibbetts, I.R. 2015 (May). Reproductive biology of wahoo (*Acanthocybium solandri*) in the Galapagos Marine Reserve. Poster presentation at the 66<sup>th</sup> Tuna Conference: Putting the pieces together, Lake Arrowhead CA, USA.
30. **Zischke, M.T.** & Griffiths, S.P. 2015 (February). Tagging fishers, not fish: Capture-recapture methods for estimating participation in specialized recreational fisheries. Oral presentation at the 75<sup>th</sup> Midwest Fish and Wildlife Conference, Indianapolis IN, USA.
31. **Zischke, M.T.**, Griffiths, S.P. and Tibbetts, I.R. 2013 (July). One of the fastest: Rapid growth of wahoo, *Acanthocybium solandri* (Scombridae), in the Coral Sea. Abstract accepted for an oral presentation at the Australian Marine Sciences Association 2013 Golden Jubilee Conference: Shaping the Future, Gold Coast QLD, Australia.

32. **Zischke, M.T.**, Griffiths, S.P., Farley, J.H. and Tibbetts, I.R. 2012 (May). Reproductive biology of wahoo off eastern Australia. Oral presentation at the 63<sup>rd</sup> Tuna Conference: Natural and anthropogenic effects on highly migratory fish populations, Lake Arrowhead CA, USA.
33. **Zischke, M.T.**, Griffiths, S.P., Tibbetts, I.R. and Lester, R.J.G. 2012 (May). Stock discrimination of wahoo in the Pacific and Indian Oceans using morphometrics and parasites. Poster presentation at the 63<sup>rd</sup> Tuna Conference: Natural and anthropogenic effects on highly migratory fish populations, Lake Arrowhead CA, USA.
34. **Zischke, M.T.**, Griffiths, S.P., Tibbetts, I.R. and Lester, R.J.G. 2012 (March). Stock discrimination of wahoo in the Pacific and Indian Oceans using morphometrics and parasites. Poster presentation at the CSIRO Division of Marine and Atmospheric Research Science Symposium, Hobart TAS, Australia.
35. **Zischke, M.T.**, Griffiths, S.P. & Pollock, K.H. 2011 (August). Tagging fishers, not fish: Capture-recapture methods for estimating population size of specialized recreational fisheries. Oral presentation at the 6<sup>th</sup> World Recreational Fishing Conference: Towards resilient recreational fisheries, Berlin, Germany.
36. **Zischke, M.T.**, Griffiths, S.P., Pollock, K.H. & Tibbetts, I.R. 2011 (May). Out with the old and in with the new: Estimating recreational catch and effort in the specialised offshore sport fishery off eastern Australia. Oral presentation at the 62<sup>nd</sup> Tuna Conference: Data challenges, Lake Arrowhead CA, USA.
37. **Zischke, M.T.**, Griffiths, S.P., Tibbetts, I.R. & Lester, R.J.G. 2010 (July). Using parasites and morphometrics to determine the stock structure of wahoo off eastern Australia. Oral presentation at the Australian Society for Fish Biology (ASFB) 2010 Conference and Climate Change Symposium, Melbourne VIC, Australia.
38. **Zischke, M.T.**, Griffiths, S.P., Tibbetts, I.R. & Lester, R.J.G. 2010 (May). Back to basics for bycatch: Stock structure of wahoo in Australian waters. Oral presentation at the 61<sup>st</sup> Tuna Conference: It's not about the catch, but the bycatch, Lake Arrowhead CA, USA.
39. **Zischke, M.T.**, Griffiths, S.P., Pepperell, J.G. & Tibbetts, I.R. 2009 (June). Life history and fishery exploitation of wahoo, *Acanthocybium solandri*, off eastern Australia. Oral presentation at the joint Australian Society for Fish Biology (ASFB) and Indo-Pacific Fish Conference (IPFC), Fremantle WA, Australia.
40. **Zischke, M.T.**, Cribb, T.H., Welch, D.J. & Lester, R.J.G. 2007 (July). Parasites as biological tags to determine small-scale spatial movements of blue threadfin along the east coast of Queensland. Oral presentation at the Australian Marine Sciences Association (AMSA) Conference, Melbourne VIC, Australia.

#### Invited presentations

1. **Zischke, M.T.** 2018 (September). Choose your own marine biology adventure! Invited speaker at Purdue Marine Biology Club, Purdue University, USA.
2. **Zischke, M.T.** 2018 (April). Invited speaker at the World Food Prize "Global Gab" event. College of Agriculture, Purdue University, USA.

3. **Zischke, M. and Brooke, J.** 2017 (October). Needs assessment of ANR educators for land and pond management issues. Invited speaker at the Purdue ANR Retreat: Natural Resources Focus Group, Fort Wayne IN, USA.
4. **Zischke, M.T.** 2016 (November). Heron Island marine ecosystem and parasites as biological markers. Invited speaker at Purdue Marine Biology Club, Purdue University, USA.
5. **Zischke, M.T.** 2014 (October). Tagging fishers, not fish: Capture-recapture methods for estimating population size of specialized recreational fisheries. Invited speaker at AFS Purdue Student Chapter, Purdue University, USA.
6. **Zischke, M.T.** 2014 (September). Using parasites as biological markers to identify fish stocks. Invited speaker at the Fisheries and Aquatic Seminar Series, Department of Forestry and Natural Resources, Purdue University, USA.
7. **Zischke, M.T.** 2013 (August). Recreational fishing in Queensland. Invited speaker at the “Snappy Science Talks” for National Science Week, Ecosciences Precinct, Brisbane QLD, Australia.
8. **Zischke, M.T.** 2013 (May). Stock structure, biology, fisheries and status of wahoo off eastern Australia. Invited speaker at the Ecosciences Precinct, Brisbane QLD, Australia.
9. **Zischke, M.T.** 2012 (November). Stock structure, biology, fisheries and status of wahoo off eastern Australia. Invited speaker at the CSIRO Division of Marine & Atmospheric Research, Brisbane QLD, Australia.
10. **Zischke, M.T.** 2010 (August). Get in the game: Estimating recreational catch and effort in the specialized offshore sport fishery off eastern Australia. Invited speaker at the CSIRO Division of Marine & Atmospheric Research, Brisbane QLD, Australia.
11. **Zischke, M.T.** 2010 (June). The stock structure of wahoo of eastern Australia – morphometrics and parasites. Invited speaker at the Centro Interdisciplinario de Ciencias Marinas (CICIMAR), Instituto Politécnico Nacional (IPN), La Paz BCS, Mexico.
12. **Zischke, M.T.** 2009 (March). Population dynamics, ecology and fisheries for wahoo off eastern Australia. Invited speaker at the Queensland Department of Primary Industries and Fisheries (QDPI&F), Brisbane QLD, Australia.
13. **Zischke, M.T.** 2009 (February). Population dynamics, ecology and fisheries for wahoo off eastern Australia. Invited speaker at the CSIRO Division of Marine & Atmospheric Research, Brisbane QLD, Australia.

#### Extension events

1. **Zischke, M.T.** 2019 (April). Public Workshop on Recreational Fishing in Southern Lake Michigan. Hosted by Purdue University and Illinois-Indiana Sea Grant, Hammond IN, USA.
2. **Zischke, M.T.** 2019 (April). Public Workshop on Recreational Fishing in Southern Lake Michigan. Hosted by Purdue University and Illinois-Indiana Sea Grant, Winthrop Harbor IL, USA.
3. **Zischke, M.T.** 2018 (November). Public Workshop on Recreational Fishing in Southern Lake Michigan. Hosted by Purdue University and Illinois-Indiana Sea Grant, Westville IN, USA.



4. **Zischke, M.T.** 2018 (November). Public Workshop on Recreational Fishing in Southern Lake Michigan. Hosted by Purdue University and Illinois-Indiana Sea Grant, Chicago IL, USA.
5. **Zischke, M.T.** 2018 (March). Public Workshop on Recreational Fishing in Southern Lake Michigan. Hosted by Purdue University and Illinois-Indiana Sea Grant, Winthrop Harbor IL, USA.
6. **Zischke, M.T.** 2018 (March). Public Workshop on Recreational Fishing in Southern Lake Michigan. Hosted by Purdue University and Illinois-Indiana Sea Grant, Chicago IL, USA.
7. **Zischke, M.T.** 2018 (February). Illinois-Indiana Sea Grant Outreach: Fisheries, weather buoys and invasive species. Booth at the Fish-On Outdoor Show, Portage IN, USA.
8. **Zischke, M.T.** 2017 (November). Public Workshop on Recreational Fishing in Southern Lake Michigan. Hosted by Purdue University and Illinois-Indiana Sea Grant, Hammond IN, USA.
9. **Zischke, M.T.** 2017 (November). Public Workshop on Recreational Fishing in Southern Lake Michigan. Hosted by Purdue University and Illinois-Indiana Sea Grant, Michigan City IN, USA.
10. **Zischke, M.T.** 2017 (February). Illinois-Indiana Sea Grant Outreach: Fisheries, weather buoys and invasive species. Booth at the Fish-On Outdoor Show, Portage IN, USA.
11. **Zischke, M.T.** 2016 (November). Public Workshop on Recreational Fishing in Southern Lake Michigan. Hosted by Purdue University and Illinois-Indiana Sea Grant, Hammond IN, USA.

#### Extension public presentations

1. **Zischke, M.T.** 2019 (August). Fish Biology for Pond Management. Invited speaker at the Starke County Pond Management Field Day, Winona, IN, USA.
2. **Zischke, M.T.** 2019 (May). Fish Biology for Pond Management. Invited speaker at the Steuben County Pond Management Workshop, Angola, IN, USA.
3. **Zischke, M.T.** 2019 (March). Fish Biology for Pond Management. Invited speaker at the Vermillion County SWCD Pond Management Workshop, Newport, IN, USA.
4. **Zischke, M.T.** 2018 (November). Fisheries outreach in southern Lake Michigan. Speaker at the Public Workshop on Recreational Fishing in Southern Lake Michigan, Chicago IL, USA.
5. **Zischke, M.T.** 2018 (May). Fish Biology for Pond Management. Invited speaker at the NEPAC Fish and Wildlife Field Day, Columbia City, IN, USA.
6. **Zischke, M.T.** 2018 (May). Fish Biology for Pond Management. Invited speaker at the Putnam County Pond Management Workshop, Greencastle, IN, USA.
7. **Zischke, M.T.** 2017 (May). Fish Biology for Pond Management. Invited speaker at the Vigo County Pond Management Workshop, Terre Haute, IN, USA.
8. Ciaramello, M., Esteves, R., Gladics, A., Lepak, J., Nelson, E., Sannito, C. Watts, E. & **Zischke, M.** 2017 (March). "Scientist Is In" event at the Smithsonian Museum of Natural History. Sea Grant Academy, Washington D.C., USA.
9. **Zischke, M.T.**, Höök, T., 2017 (February). Food webs in Lake Michigan and Fisheries Extension Showcase. Invited speaker at the NW Indiana Steelheaders Club Meeting, Chesterton, IN, USA.

10. **Zischke, M.T.** 2016 (April). Saginaw Bay fish spawning habitat: Pre-restoration assessment. Invited speaker at the Lake Huron Fisheries Workshop, Ubyly MI, USA.
11. **Zischke, M.T.** 2016 (April). Saginaw Bay fish spawning habitat: Pre-restoration assessment. Invited speaker at the Lake Huron Fisheries Workshop, Bay City MI, USA.
12. **Zischke, M.T.** 2015 (April). Saginaw Bay fish spawning habitat: Pre-restoration assessment. Invited speaker at the Lake Huron Fisheries Workshop, Bay City MI, USA.
13. **Zischke, M.T.** 2012 (June). Biology and sport fishery for wahoo off eastern Australia – an update. Invited speaker at the Gold Coast Game Fishing Club, Gold Coast QLD, Australia.
14. **Zischke, M.T.** 2010 (November). Biology, stock structure and fisheries of wahoo off eastern Australia – an update. Invited speaker at the Sunshine Coast Game Fishing Club, Mooloolaba QLD, Australia.
15. **Zischke, M.T.** 2010 (April). Biology and ecology of wahoo off eastern Australia. Invited speaker at the Brisbane Sport Fishing Club, Brisbane QLD, Australia.
16. **Zischke, M.T.** 2009 (December). Biology and ecology of wahoo off eastern Australia. Invited speaker at the Yorkeys Knob Sport Fishing Club, Cairns QLD, Australia.
17. **Zischke, M.T.** 2009 (June). Biology and ecology of wahoo off eastern Australia. Invited speaker at the Bribie Island Game Fishing Club, Bribie Island QLD, Australia.
18. **Zischke, M.T.** 2009 (February). Biology and ecology of wahoo along the east coast of Australia. Invited speaker at the Gold Coast Game Fishing Club, Gold Coast QLD, Australia.
19. **Zischke, M.T.** 2009 (February). Biology and ecology of wahoo along the east coast of Australia. Invited speaker at the Surfers Paradise Game and Sport Fishing Club, Gold Coast QLD, Australia.
20. **Zischke, M.T.** 2008 (December). Biology and ecology of wahoo along the east coast of Australia. Invited speaker at the Moreton Bay Boat Club, Brisbane QLD, Australia.
21. **Zischke, M.T.** 2008 (November). Biology and ecology of wahoo along the east coast of Australia. Invited speaker at the Sunshine Coast Game Fishing Club, Mooloolaba QLD, Australia.

### Media

1. **WLF1 18 News.** 2019 (September). New publication series focuses on pond and wildlife management. Available at <https://www.wlfi.com/content/news/New-Publication-Series-Focuses-on-Pond-and-Wildlife-Management-559189501.html>
2. **AgriNews.** 2019 (September). New publication series focuses on pond and wildlife management. Available at [http://www.agrinews-pubs.com/news/new-publication-series-is-focused-on-pond-and-wildlife-management/article\\_96954655-8520-5df6-af80-80c62049fd1e.html](http://www.agrinews-pubs.com/news/new-publication-series-is-focused-on-pond-and-wildlife-management/article_96954655-8520-5df6-af80-80c62049fd1e.html)
3. **Purdue University Agriculture News.** 2019 (August). New publication series focuses on pond and wildlife management. Available at <https://www.purdue.edu/newsroom/releases/2019/Q3/new-publication-series-to-focus-on-pond-and-wildlife-management.html>

4. **AgCatt News.** 2019 (August). New publication series focuses on pond and wildlife management. Available at <https://agcatt.com/other-news/item/3180275>
5. **Illinois-Indiana Sea Grant Newsroom.** 2019 (August). In the News: Mitchell Zischke helps produce pond and wildlife management publication series. Available at <https://iiseagrant.org/in-the-news-mitchell-zischke-helps-produce-pond-and-wildlife-management-publication-series/>
6. IDNR Wild Bulletin. 2019 (June). Pond management series available online. Available at [https://content.govdelivery.com/bulletins/gd/INDNR-248e83b?wgt\\_ref=INDNR\\_WIDGET\\_1](https://content.govdelivery.com/bulletins/gd/INDNR-248e83b?wgt_ref=INDNR_WIDGET_1)
7. **Chicago Sun Times.** 2018 (June). Lake Michigan perch and perspective: At least trying to put the two together. Available at <https://chicago.suntimes.com/2018/6/20/18315938/lake-michigan-perch-and-perspective-at-least-trying-to-put-the-two-together>
8. **Illinois-Indiana Sea Grant Newsroom.** 2017 (July). Anglers and researchers can reel in Lake Michigan fishing data. Available at <https://iiseagrant.org/anglers-and-researchers-can-reel-in-lake-michigan-fishing-data/>
9. **Illinois-Indiana Sea Grant Newsroom.** 2016 (November). Lake Michigan fisheries workshop brings anglers and researchers together. Available at <https://iiseagrant.org/lake-michigan-fisheries-workshop-brings-anglers-and-researchers-together/>

## GRANTS AND AWARDS

*I have received 12 research, extension and teaching grants, and 16 academic awards from universities and professional associations, totaling \$486,094.*

### Research, Extension & Teaching Grants

- 2019: **Renewable Resource Extension Act (RREA National Focus Fund Projects (NFF))**  
 Extension Grant  
 USD\$91,550  
 Strickland, B. (PI), Janke, A., Lashley, M., Brooke, J. Zischke, M. (Co-PIs)  
 Project Title: Podcasting to expand engagement to private landowners and natural resource professionals with Natural Resources University
- 2019: **FNR Extension Internship**  
 Undergraduate student grant  
 USD\$4,840  
 Zischke, M. (PI), Musenbrock, E. (Intern)  
 Project Title: Pond management outreach and extension
- 2019: **FNR Small Equipment grant**  
 Equipment grant  
 USD\$5,750  
 Zischke, M. (PI), Goforth, R., Beugly, J. (Co-PIs)  
 Project Title: Multipurpose Electrofishing Boat
- 2018: **FNR Extension Internship**  
 Undergraduate student grant  
 USD\$7,010  
 Zischke, M. (PI), Tomlinson, T. (Intern)  
 Project Title: Pond and land management for Indiana landowners

- 2018: **Purdue Issue-Based Action Team (IBAT)**  
Extension Grant  
USD\$27,200  
Zischke, M. (PI), Brooke, J., Whitford, F., Thompson, A., Bruner, R., Horan, W., Osborne, D., Ferris, J., Cox, P. (Co-PIs)  
Project Title: Natural resources on private lands: Pond and land management for Indiana landowners
- 2017: **Purdue IMPACT program grant**  
Teaching Grant  
USD\$10,000  
Zischke, M. (PI)  
Project Title: Redesign of FNR 201 (Marine Biology) for student-centered learning
- 2017: **Purdue IBAT planning grant**  
Extension Grant  
USD\$1,000  
Zischke, M. (PI), Brooke, J. (Co-PI)  
Project Title: Needs Assessment and Planning for Private Land and Pond Management in Indiana
- 2016: **Indiana Lake Michigan Costal Program**  
Extension Funding  
USD\$4,529  
Zischke, M. (PI), Salazar, K. (Co-PI), Dorworth, L. (Co-PI) & Beugly, J. (Co-PI)  
Project Title: Public workshops on recreational fishing in southern Lake Michigan
- 2015: **Illinois-Indiana Sea Grant**  
Research Funding  
USD\$96,000  
Zischke, M.T. (PI) & Gramig, B.M. (Co-PI)  
Project title: Recreational valuation and management implications for the southern Lake Michigan fishery.
- 2011: **Winifred Violet Scott Foundation Grant**  
Research Funding  
AUD\$27,000  
Zischke, M.T. (PI)  
Project Title: Biology, ecology and sustainability assessment of a large ocean roaming predator, the wahoo, off eastern Australia.
- 2010: **NSW Industry & Innovation Saltwater Recreational Fishing Trust**  
Research Funding  
AUD\$9,725  
Zischke, M.T. (PI)  
Project Title: A complemented angler survey to estimate the recreational catch and effort for wahoo off eastern Australia.
- 2009: **Royal Zoological Society of NSW Ethel Mary Reed Grant**  
Research Grant  
AUD\$1,500  
Zischke, M.T. (PI)

Project Title: Stock structure of wahoo, *Acanthocybium solandri*, off eastern Australia, as inferred from parasites and morphometrics

### Academic awards

2018: **Purdue University Seed for Success Award**

Extramural Funding Award

Non-cash

Awarded to PIs and Co-PIs who secure an extramural grant worth \$1 million or more. This was awarded to me for being part of the team that secured the 2018-2022 IISG Omnibus Proposal from the National Oceanic and Atmospheric Administration for \$5,431,708.

2013: **UQ Dean's Award for Research Higher Degree Excellence**

PhD Thesis Award

Non-cash

Awarded for demonstrated excellence in a research higher degree. My PhD thesis was commended by advisors and independent examiners for its substantial contribution to the field of research. Fewer than 10% of graduate students from The University of Queensland receive this award.

2013: **Fisheries Research and Development Corporation Student Prize**

Conference Prize

AUD\$1,000

Awarded for the best oral presentation in the area of natural resources sustainability and industry development at the AMSA 2013 Conference at the Gold Coast QLD, Australia.

2012: **63<sup>rd</sup> Tuna Conference Scholarship**

Conference Scholarship

USD\$1,700

Awarded for international travel, accommodation and registration to present an original paper at the 63<sup>rd</sup> Tuna Conference in Lake Arrowhead CA, USA.

2012: **UQ School of Biological Sciences Travel Award**

Conference Scholarship

AUD\$1,200

Awarded by The University of Queensland for international travel, accommodation, and conference fees to present an original paper at the 63<sup>rd</sup> Tuna Conference in Lake Arrowhead CA, USA.

2011: **62<sup>nd</sup> Tuna Conference Scholarship**

Conference Scholarship

USD\$2,200

Awarded for international travel, accommodation and registration to present an original paper at the 62<sup>nd</sup> Tuna Conference in Lake Arrowhead CA, USA

2011: **6<sup>th</sup> World Recreational Fishing Conference Student Scholarship**

Conference Scholarship

EUR€500

Awarded for accommodation and registration to present an original paper at the 6<sup>th</sup> World Recreational Fishing Conference in Berlin, Germany.

2010: **UQ Faculty of Science Postgraduate Travel Award**

Conference Scholarship

AUD\$2,950

Awarded by The University of Queensland for international travel, accommodation, and conference fees to present an original paper at the 6<sup>th</sup> World Recreational Fishing Conference in Berlin, Germany.

2010: **UQ Graduate School International Travel Award**

Travel Scholarship

AUD\$2,890

Awarded by The University of Queensland for international travel and accommodation to San Diego, CA, to facilitate collaboration, training and data collection for my PhD research.

2009: **Australian Society for Fish Biology John Glover Travel Award**

Conference Scholarship

AUD\$500

Awarded for accommodation and registration to present an original paper at the joint ASFB/IPFC conference in Fremantle WA, Australia.

2008: **The University of Queensland Research Scholarship (UQRS)**

AUD\$70,000

Tuition and stipend (3 Years) for Doctorate of Philosophy in Fisheries Science

2007: **Australian Marine Sciences Association Conference Student Prize**

AUD\$300

Awarded for best student presentation relating to fisheries management at the AMSA 2007 Conference in Melbourne VIC, Australia.

2006: **The University of Queensland Research Scholarship (UQRS)**

AUD\$58,000

Tuition and stipend (3 Years) for Doctorate of Philosophy in Parasitology (Offer declined).

2006: **James Cook University Postgraduate Research Scholarship (JCU-PRS)**

AUD\$58,000

Tuition and stipend (3 Years) for Doctorate of Philosophy in Parasitology (Offer declined).

2005: **The Great Barrier Reef Foundation and Telstra Countrywide Prize**

AUD\$750

Awarded for obtaining the highest grades in Australia by a 3<sup>rd</sup> year student majoring in the field of Tropical Marine Science.

2005: **UQ Dean's Commendation for High Achievement**

Non-cash

Awarded for high academic achievement in the third-year of my BSc degree.

## TEACHING AND STUDENT SUPERVISION

*I have instructed and given guest lectures for a number of university courses. I am currently advising 1 graduate student and 1 undergraduate student. I have successfully completed projects with 4 graduate student and 13 undergraduate students. I am the current academic advisor for 2 student clubs. From 2009-2013, I was a teaching assistant for a total of 10 classes (see employment history).*

### Teaching:

2019 (Sum.): FNR 371: AQSC Summer Practicum (Week 5)

Role = Instructor, 6 days of experiential learning

Enrolment = 13 students  
Student evaluation = 5/5

- 2019 (Spring): FNR 385: Fish Biology & Ecology  
Role = Co-instructor, responsible for 20 lectures, 7 labs, 2 exams and 6 writing assignments  
Enrolment = 9 students  
Student evaluation = 4.5/5
- 2018 (Fall): FNR 201: Marine Biology  
Role = Instructor, responsible for 40 lectures, 4 exams and 11 writing assignments  
Enrolment = 52 students  
Student evaluation = 4.8/5
- 2018 (Fall): FNR 198: Nature of Wild Things Learning Community  
Role = Co-instructor, responsible for class discussions and external activities  
Enrolment = 34 students  
Student evaluation = 4.7/5
- 2018 (Fall): FNR 240: Wildlife of America  
Role = Guest lecture on Great Lakes fisheries
- AGR 119: Introduction to Forestry and Natural Resources Academic Programs  
Role = Guest lecture on the fisheries and aquatic sciences faculty in FNR
- 2018 (Sum.): FNR 371: FAQs Summer Practicum (Week 5)  
Role = Co-instructor, 6 full days of experiential learning  
Enrolment = 8 students  
Student evaluation = 5/5
- 2018 (Spring): FNR 455: Fish Ecology  
Role = Instructor, responsible for 27 lectures, 4 exams and 4 writing assignments  
Enrolment = 23 students  
Student evaluation = 4.3/5
- 2018 (Spring): FNR 198: Nature of Wild Things Learning Community  
Role = Guest lecture on the fisheries and aquatic sciences faculty in FNR
- 2017 (Fall): FNR 201: Marine Biology  
Role = Instructor, responsible for 40 lectures, 4 exams and 3 writing assignments  
Enrolment = 53 students  
Student evaluation = 4.5/5
- 2017 (Fall): FNR 240: Wildlife of America  
Role = Guest lecture on Great Lakes fisheries
- AGR 119: Introduction to Forestry and Natural Resources Academic Programs  
Role = Guest lecture on the fisheries and aquatic sciences faculty in FNR
- 2016 (Fall): FNR 201: Marine Biology  
Role = Instructor, responsible for 40 lectures, 4 exams and 3 writing assignments  
Enrolment = 59 students  
Student evaluation = 4.7/5

2015 (Fall): FNR 241: Ecology and Systematics of Fishes and Mammals  
Role = Guest lecture on zoogeography

FNR 201: Marine Biology  
Role = Guest lecture on the open ocean

2014 (Fall): FNR 241: Ecology and Systematics of Fishes and Mammals  
Role = Co-instructor, responsible for 24 lectures and 2 exams  
Enrolment = 71 students  
Student evaluation = 4.8/5

#### Student supervision:

##### *Graduate students:*

2018 (in progress): Alex Gatch (M.S.), *Reef Restoration in Saginaw Bay*  
Role: Committee member

2014-2019: Isabel Haro (Ph.D.), *Wahoo population dynamics in the Galapagos Islands*  
Role: Co-advisor

2016-2018: Ben Leonhardt (M.S.), *Feeding ecology of piscivores in Lake Michigan*  
Role: Reader

2015-2017: Nick Kalejs (M.S.), *Pre-assessment of spawning reefs in Saginaw Bay*  
Role: Reader

2015-2017: Margaret Hutton (M.S.), *Spatiotemporal production in Lake Michigan*  
Role: Reader

##### *Undergraduate students:*

2019 (in progress): Emily Musenbrock, Extension student, *Pond management in Indiana*

2019: Logan Halderman, Research student, *Pond assessment for Lake Pyoca*

2018-2019: Jade Layman, IISG Intern, *Graphic design to support extension*

2018-2019: Jason Jaworski, Extension student, *Aquatic plant management in Indiana*

2018: Tevin Tomlinson, FNR Extension Intern, *Pond management in Indiana*

2017: Lindsey Dice, IISG Intern, *Recreational fishing data in Lake Michigan*

2017: Roya Ball, *Population dynamics of yellow perch in Lake Michigan*

2016: Andrew Ramirez, *Fish migration in Lake Michigan*

2016: Dominique Turney, *Capture-recapture of anglers in Lake Michigan*

2015: Jessica Perelman, *Wahoo feeding dynamics*

2015: Brooke Dennis, *Recreational fishing in Lake Michigan*

2014: Kirsten Schmidt, *Wahoo feeding dynamics*

2013: Madeleine Donohue, *Otolith increment validation*

2013: Benjamin Tilyard, *Otolith morphology*

#### Student club advising:

2017 - current: Purdue student chapter of the American Fisheries Society  
~30 students

2017 - current: Purdue student bass fishing club  
~50 students

## **EMPLOYMENT HISTORY**

2016-2017: **Research and Extension Fisheries Scientist**  
Purdue University  
Department of Forestry and Natural Resources



Research projects included socioeconomic analysis of recreational fishing in Lake Michigan, nearshore food web dynamics of Lake Michigan and biology and ecology of pelagic fishes. Teaching activities included instructing a second level marine biology course, guest lectures and the supervision of undergraduate and graduate students.

2014-2016: **Postdoctoral Research Associate**

Purdue University

Department of Forestry and Natural Resources

Research projects included assessment of potential reef restoration in Lake Huron, investigation of recruitment synchrony in lake whitefish across the Great Lakes, nearshore food web dynamics of Lake Michigan and socioeconomic research on recreational fishing in Lake Michigan. Teaching activities included co-instructor of a second level fish biology and ecology course, guest lectures and the supervision of undergraduate and graduate students.

2013-2014: **Fisheries Scientist**

Fisheries Queensland

Department of Agriculture, Fisheries and Forestry, Brisbane QLD Australia

Supported and enhanced the monitoring of recreational fisheries in Queensland. Specifically, assisted with the design and management of statewide recreational fishing surveys, data analysis, stakeholder liaison, ministerial briefs and produced timely and accurate scientific reports.

2013-2014: **Academic Advisor**

*School of Biological Sciences*

*The University of Queensland, Brisbane QLD Australia*

Provided academic supervision to undergraduate students participating in a research and industry placement, including marking assessment items.

2013:

**Research Administration Officer**

*Research and Innovation*

*The University of Queensland, Brisbane QLD Australia*

Reviewed and edited federally funded research grant and fellowship proposals for eligibility, compliance and grantsmanship. Liaised with researchers to ensure high quality while adhering to strict requirements and deadlines.

2009-2013: **Teaching Assistant**

*School of Biological Sciences*

*The University of Queensland, Brisbane QLD Australia*

This position involved teaching second and third year biology students in practical classes, extended field trips and group research projects. I delivered lectures, graded assignments and supervised other teaching assistants.

2009-2013: **Research Projects Officer**

*CSIRO Marine and Atmospheric Research, Brisbane QLD Australia*

Provided field, laboratory and coordinative support for collaborative research projects investigating albacore (*Thunnus alalunga*), yellowfin (*T. albacares*) and bigeye (*T. obesus*) tuna with Ms Jessica Farley (CSIRO) and Dr Simon Nicol (Secretariat of the Pacific Community), and longtail tuna (*T. tonggol*) with Dr Shane Griffiths (CSIRO). Duties included dissections and preparation of samples for ageing and reproductive analyses.

2008-2013: **PhD Research Project**

*School of Biological Sciences*

*The University of Queensland, Brisbane QLD Australia*

My PhD thesis, titled “Biology, stock structure, fisheries and assessment of wahoo (*Acanthocybium solandri*) off eastern Australia”, was conferred on 4 July 2013. This project investigated the age and growth, reproductive biology, stock structure and recreational fisheries for wahoo, culminating in a stock assessment in the region.

- 2011: **Research Volunteer**  
*NOAA Southwest Fisheries Science Centre, San Diego CA USA*  
Assisted Dr John Hyde and Mr. Owyn Snodgrass with the deployment of an electronic tag on a basking shark (*Cetorhinus maximus*) off southern California.
- 2009-2011: **Research Volunteer**  
*CSIRO Marine and Atmospheric Research, Brisbane QLD Australia*  
Assisted Dr Shane Griffiths with the deployment of pop-up archival satellite tags (PSATs) on longtail tuna (*Thunnus tonggol*) of eastern Australia.
- 2010: **Research Volunteer**  
*Pfleger Institute of Environmental Research, Oceanside CA USA*  
Assisted Dr Chugey Sepulveda and Mr. Scott Aalbers with the deployment of electronic archival tags on white seabass (*Atractoscion nobilis*) off southern California.
- 2009: **Research Volunteer**  
*The University of Queensland, Brisbane QLD Australia*  
Assisted Dr Adrian Gutteridge with fishery independent sampling of elasmobranch populations in Hervey Bay, QLD, using gill nets, longline and drum lines, including the deployment of conventional and electronic tags.
- 2008-2009: **Scientific Observer**  
*Australian Fisheries Management Authority, Canberra ACT Australia*  
Completed observer trips on commercial longline vessels targeting tuna and swordfish to record scientific information on effort, catch, bycatch and protected species interactions.
- 2008: **Data Analyst**  
*Australian Fisheries Management Authority, Canberra ACT Australia*  
Coordinated routine monitoring programs collecting otoliths and length frequencies in commercial fisheries, as well as analyzed and reported on observer and logbook catch and effort data.
- 2007: **Fishery Management Intern**  
*Australian Fisheries Management Authority, Canberra ACT Australia*  
Completed a one-year internship undertaking a range of fisheries management duties including data collection and analysis, management policy, environmental policy and national compliance issues.
- 2006: **Honors Research Project**  
*School of Molecular and Microbial Sciences*  
*The University of Queensland, Brisbane QLD Australia*  
Thesis title: “The use of parasites as biological tags to determine the small scale spatial movement of blue threadfin (*Eleutheronema tetradactylum*) off the east coast of Queensland.”

**SKILLS AND TRAINING**Extension:

- Needs assessment and the logic model
- Program evaluation
- Survey design and implementation
- Grant writing and project management
- Science communication (written articles, infographics, videos, social media posts)

Field research:

- Fish collection techniques (seine and gill netting, trawling, rod and line, longline, electrofishing)
- Aquatic sampling techniques (zooplankton, egg collection, water quality)
- At-sea animal handling, tagging and biological sampling
- Fish identification in marine and freshwater systems
- Recreational fisher (i.e. angler) interviews

Laboratory research:

- Fish dissection (basic biology, physiology, parasitology)
- Parasite collection, preparation and identification
- Fish otolith extraction and preparation for annual and daily ageing
- Fish ageing techniques (counting annual and daily increments, marginal increment analysis)
- Gonad extraction and histological preparation (staining, embedding, sectioning, mounting)
- Histological classification of fish gonads
- Fish fecundity preparation and analysis
- Stomach contents analyses including prey identification

Data storage, manipulation and analysis:

- Construction, testing and maintenance of relational databases (Microsoft Access)
- Linear and non-linear modelling, basic simulation, Multivariate analyses (R statistical package)
- Fisheries analyses (catch curves, per-recruit stock assessment)
- Multivariate analyses (PRIMER + PERMANOVA)
- Analysis of capture-recapture data (Program MARK)
- Comprehensive graphing (Grapher) and illustrations (Microsoft Illustrator)
- Comprehensive mapping (ArcGIS)

Training and certificates:

- 2017: IMPACT - Instructor training and course redesign for student-centered learning (Fall semester, Purdue University)
- 2017: Aquatic Plant Identification (State of Lake Michigan Conference)
- 2017: Sea Grant Academy (Annapolis, MD and Newport, OR)
- 2017: Advanced first-aid and CPR (Workplace first-aid training, Purdue CoRec)
- 2016: Scientific writing from the reader's perspective (Hosted by George Gopen, Indianapolis)
- 2016: Principles of public involvement (Midwest Fish and Wildlife Conference)
- 2016: Developing online surveys (Midwest Fish and Wildlife Conference)
- 2015: Teaching workshops (Purdue Center for Instructional Excellence)
- 2012: R Statistical Package
- 2012: PRIMER-E: Multivariate statistics for ecologists
- 2011: MARK: A program to analyse capture-recapture data
- 2006: Survival-at-sea training (Royal Australian Navy)
- 2006: Senior firefighting (Royal Australian Navy)

**PROFESSIONAL ACTIVITIES**Reviewer:

2019: Pennsylvania Sea Grant  
2017: Fishery Bulletin  
2017: Environmental Science and Technology  
2017: Fisheries Research  
2016: Reviews in Fish Biology and Fisheries  
2016: Marine and Freshwater Research  
2016: Chinese Journal of Oceanography and Limnology  
2015-16: United States Geological Survey  
2015: Canadian Journal of Fisheries and Aquatic Sciences  
2014-16: Journal of Fish Biology  
2014: North American Journal of Fisheries Management  
2014: African Journal of Marine Science  
2013: Marine and Freshwater Research  
2012: Monterey Bay Aquarium Seafood Watch  
2011: Blue Ocean Institute

Memberships:

2014-present: International Association for Great Lakes Research  
2013-present: American Fisheries Society: National & Indiana State Chapter  
2009-2014: Australian Society for Fish Biology  
2007-2014: Australian Marine Sciences Association  
2009-2013: Royal Zoological Society of New South Wales

**REFERENCES**

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